

FA Part 2 Mathematics Chapter 3 Test Online

Sr	Questions	Answers Choice
1	Question Image	
2	Question Image	A. e^{ax} B. $f(x)$ C. $e^{ax}f(x)$ D. $e^{ax+f(x)}$
3	If $y = x^2 + 1$ _____ x changes from 3 to 3.02 then $dy =$ _____	A. 0.1204 B. .12 C. .02 D. 1.2
4	If the graph of f is entirely above the x-axis, then the definite integral is _____:	A. Positive B. Positive or negative C. Negative D. Positive and negative
5	Question Image	C. 2 D. 1
6	If the graph of f is entirely below the x-axis, then the definite integral is:	A. Positive B. Positive or negative C. Negative D. Positive and negative
7	Question Image	A. Integration B. Integrand C. Constant of integration D. None of these
8	Question Image	A. $\cos x + c$ B. $-\cos x + c$ C. $\sin x + c$ D. $-\sin x + c$
9	Question Image	A. $\ln \sec x + \tan x + c$ B. $\ln \operatorname{cosec} x - \cot x + c$ C. $\ln \sec x - \tan x + c$ D. $\ln \operatorname{cosec} x + \cot x + c$
10	Question Image	A. 0 B. 1 C. 2 D. 4
11	The term dy (or df) = $f'(x) dx$ is called the _____ of the dependent variable y.	A. Differentiation B. Integration C. Differential D. None of these
12	Question Image	A. 36 B. 42 C. 48 D. 12
13	Question Image	A. $a \operatorname{cosec}(ax + b)$ D. $\cot(ax + b)$
14	Question Image	A. equal to each other B. not equal to each C. nearly equal to each other D. none of these
15	If $y = \sin x$ then $dy =$	A. $\cos y dx$ B. $\cos x$ C. $\cos x dx$ D. $\cos x dy$
16	Question Image	A. integration by parts B. definite integral C. Differentiation D. None of these
		A. 1 - -

17	The general solution of differential equation of order n contains n arbitrary constants, which can be determined by ----- initial value conditions.	B. 0 C. 2 D. n
18	Question Image <input type="text"/>	A. Integration by parts B. Definite integral C. Differentiation D. None of these
19	Question Image <input type="text"/>	A. Derivative B. Differential C. Integral D. None of these
20	If the upper limit is a constant and the lower limit is a variable, then the integral is a function of:	A. x B. y C. lower limit D. upper limit